

| Euler's Method with h=0.1 | | | | | |
|---------------------------|----------------|-------------|--------|-------------|--------------|
| n | t _n | x | y | f(t,x,y) | g(t,x,y) |
| 0 | 0 | 0 | 2 | 2 | -1 |
| 1 | 0.1 | 0.2 | 1.90 | 1.9 | -0.39482082 |
| 2 | 0.2 | 0.39 | 1.86 | 1.860517092 | -0.140885666 |
| 3 | 0.3 | 0.576051709 | 1.87 | 1.874402658 | 0.027353607 |
| 4 | 0.4 | 0.76151275 | 1.94 | 1.937341315 | 1.081557952 |
| 5 | 0.5 | 0.957246407 | 2.05 | 2.045492108 | 1.517721975 |
| 6 | 0.6 | 1.161795617 | 2.20 | 2.197264306 | 1.948445729 |
| 7 | 0.7 | 1.381522048 | 2.39 | 2.392108879 | 2.386407925 |
| 8 | 0.8 | 1.620732936 | 2.63 | 2.630577671 | 2.836429129 |
| 9 | 0.9 | 1.883790703 | 2.91 | 2.914220584 | 3.312963933 |
| 10 | 1 | 2.175212761 | 3.25 | 3.245516978 | 3.823190374 |
| 11 | 1.1 | 2.499764459 | 3.63 | 3.627838015 | 4.375868937 |
| 12 | 1.2 | 2.862548061 | 4.07 | 4.065421908 | 4.979791136 |
| 13 | 1.3 | 3.269090251 | 4.56 | 4.563401021 | 5.644076149 |
| 14 | 1.4 | 3.725430354 | 5.13 | 5.127808636 | 6.37825208 |
| 15 | 1.5 | 4.238211217 | 5.77 | 5.76631384 | 7.192477665 |
| 16 | 1.6 | 4.81474601 | 6.48 | 6.484881606 | 8.09770002 |
| 17 | 1.7 | 5.463262762 | 7.29 | 7.294451609 | 9.105821307 |
| 18 | 1.8 | 6.192779323 | 8.21 | 8.205231739 | 10.22986957 |
| 19 | 1.9 | 7.012512197 | 9.23 | 9.228220696 | 11.48417634 |
| 20 | 2 | 7.930673366 | 10.38 | 10.37663833 | 12.884565 |
| 21 | 2.1 | 8.973737199 | 11.67 | 11.46509478 | 14.44854953 |
| 22 | 2.2 | 10.14024668 | 13.11 | 13.10994973 | 16.19555712 |
| 23 | 2.3 | 11.4524165 | 14.73 | 14.72950545 | 18.14716031 |
| 24 | 2.4 | 12.9241922 | 16.54 | 16.54422148 | 20.32733929 |
| 25 | 2.5 | 14.57861434 | 18.58 | 18.57808541 | 22.76276724 |
| 26 | 2.6 | 16.43630988 | 20.85 | 20.85323213 | 25.48312567 |
| 27 | 2.7 | 18.5216331 | 23.40 | 23.4015447 | 28.52145322 |
| 28 | 2.8 | 20.8637857 | 26.25 | 26.25390002 | 31.91453188 |
| 29 | 2.9 | 23.48715657 | 29.45 | 29.44514321 | 35.7031353 |
| 30 | 3 | 26.43167089 | 33.02 | 33.01547474 | 39.93340396 |
| 31 | 3.1 | 29.7321836 | 37.01 | 37.00881513 | 44.6557287 |
| 32 | 3.2 | 33.4409098 | 41.47 | 41.4747242 | 49.9263573 |
| 33 | 3.3 | 37.58153712 | 46.47 | 46.46700817 | 55.80870498 |
| 34 | 3.4 | 42.2823794 | 52.05 | 52.04787867 | 62.37269725 |
| 35 | 3.5 | 47.430258 | 58.29 | 58.285484 | 69.6963517 |
| 36 | 3.6 | 53.26154064 | 65.25 | 65.25478393 | 77.86631311 |
| 37 | 3.7 | 59.78701903 | 73.04 | 73.04143709 | 86.97990533 |
| 38 | 3.8 | 67.09116274 | 81.74 | 81.73942763 | 97.14408235 |
| 39 | 3.9 | 75.2610551 | 91.45 | 91.43853986 | 108.4738243 |
| 40 | 4 | 84.41048989 | 102.30 | 102.3017483 | 121.1174609 |
| 41 | 4.1 | 94.6406092 | 114.41 | 114.4134593 | 135.2081502 |
| 42 | 4.2 | 106.0820068 | 127.93 | 127.9342743 | 150.9160704 |
| 43 | 4.3 | 118.8754343 | 143.03 | 143.0258813 | 168.4247809 |
| 44 | 4.4 | 133.1780224 | 159.87 | 159.8683594 | 187.985541 |
| 45 | 4.5 | 149.1645884 | 178.66 | 178.6622148 | 209.6846332 |
| 46 | 4.6 | 167.1031978 | 199.63 | 199.6306782 | 233.9157972 |
| 47 | 4.7 | 186.9941477 | 223.02 | 223.0222576 | 260.9132009 |
| 48 | 4.8 | 209.2963734 | 249.11 | 249.1135789 | 290.989585 |
| 49 | 4.9 | 234.2077313 | 278.21 | 278.2125374 | 324.4927049 |
| 50 | 5 | 262.0208515 | 310.66 | 310.6618079 | 361.809313 |
| 51 | 5.1 | 293.0951659 | 346.84 | 346.84274 | 403.369499 |
| 52 | 5.2 | 327.7794399 | 387.18 | 387.1796899 | 449.6514317 |
| 53 | 5.3 | 366.4974089 | 432.14 | 432.1444331 | 501.1867946 |
| 54 | 5.4 | 409.7118922 | 482.26 | 482.2631286 | 558.566688 |
| 55 | 5.5 | 457.9382434 | 538.12 | 538.1201814 | 622.4482378 |
| 56 | 5.6 | 511.7502616 | 600.37 | 600.3500551 | 693.5619254 |
| 57 | 5.7 | 571.7867621 | 669.72 | 669.7217977 | 772.7197274 |
| 58 | 5.8 | 638.78818 | 746.99 | 746.9931704 | 860.8241532 |
| 59 | 5.9 | 713.4581989 | 833.08 | 833.0755857 | 958.8782799 |
| 60 | 6 | 796.765275 | 928.96 | 928.9634137 | 1067.996895 |

| Euler's Method with h=0.2 | | | | | |
|---------------------------|----------------|-------------|-----------|--------------|-------------|
| n | t _n | x | y | f(t,x,y) | g(t,x,y) |
| 0 | 0 | 0 | 2 | 2 | -1 |
| 1 | 0.2 | 0.4 | 1.84 | 1.848480552 | 0.221402758 |
| 2 | 0.4 | 0.76 | 1.84 | 1.848480552 | 0.221402758 |
| 3 | 0.6 | 1.1285611 | 2.08 | 2.077789381 | 2.00204164 |
| 4 | 0.8 | 1.544413986 | 2.48 | 2.474917709 | 2.816317193 |
| 5 | 1 | 2.04093528 | 3.05 | 3.025935988 | 3.82974461 |
| 6 | 1.2 | 2.649339918 | 3.80 | 3.796023335 | 4.822373423 |
| 7 | 1.4 | 3.40848585 | 4.76 | 4.74904802 | 6.111391117 |
| 8 | 1.6 | 4.360444189 | 5.98 | 5.967776243 | 7.691144559 |
| 9 | 1.8 | 5.55699437 | 7.52 | 7.521005155 | 9.420461384 |
| 10 | 2 | 7.061200468 | 9.45 | 9.449533392 | 12.06193264 |
| 11 | 2.2 | 8.951077146 | 11.86 | 11.86191812 | 15.06530967 |
| 12 | 2.4 | 11.32498077 | 14.87 | 14.87498005 | 18.79517787 |
| 13 | 2.6 | 14.28849878 | 18.63 | 18.6401561 | 23.42605607 |
| 14 | 2.8 | 18.28489991 | 23.32 | 23.31935482 | 29.17587176 |
| 15 | 3 | 22.8691087 | 29.15 | 29.1452917 | 36.30932949 |
| 16 | 3.2 | 28.5200671 | 36.42 | 36.41639507 | 45.15626854 |
| 17 | 3.4 | 35.8034572 | 45.45 | 45.44764878 | 56.12314271 |
| 18 | 3.6 | 44.89287548 | 56.67 | 56.67227732 | 69.71170808 |
| 19 | 3.8 | 56.2733094 | 70.61 | 70.61461894 | 86.54122744 |
| 20 | 4 | 70.3057473 | 87.92 | 87.92886443 | 107.3779761 |
| 21 | 4.2 | 87.9482761 | 109.40 | 109.3980234 | 132.1579628 |
| 22 | 4.4 | 109.8144323 | 136.03 | 136.029616 | 165.0501173 |
| 23 | 4.6 | 137.020555 | 160.04 | 160.0396395 | 204.4863872 |
| 24 | 4.8 | 170.8282384 | 209.94 | 209.9367169 | 253.2302674 |
| 25 | 5 | 212.8156268 | 260.58 | 260.5827704 | 313.4616423 |
| 26 | 5.2 | 264.9321808 | 323.28 | 323.270988 | 387.8615047 |
| 27 | 5.4 | 329.372006 | 400.85 | 400.8477998 | 473.731417 |
| 28 | 5.6 | 407.766806 | 496.79 | 496.7940833 | 583.145583 |
| 29 | 5.8 | 501.154972 | 615.42 | 615.4232204 | 713.107334 |
| 30 | 6 | 622.2004163 | 762.04 | 762.0406972 | 869.783889 |
| 31 | 6.2 | 784.0205977 | 942.30 | 942.301555 | 1118.765524 |
| 32 | 6.4 | 973.2493917 | 1166.95 | 1166.954692 | 1381.38913 |
| 33 | 6.6 | 1206.64093 | 1443.23 | 1443.232518 | 1705.14332 |
| 34 | 6.8 | 1495.288284 | 1784.26 | 1784.261194 | 2104.159775 |
| 35 | 7 | 1852.13907 | 2205.09 | 2205.093139 | 2595.81816 |
| 36 | 7.2 | 2293.157698 | 2724.26 | 2724.256771 | 3201.48919 |
| 37 | 7.4 | 2838.09052 | 3364.55 | 3364.554649 | 3947.47486 |
| 38 | 7.6 | 3454.91982 | 4154.04 | 4154.042926 | 4865.951633 |
| 39 | 7.8 | 4141.728827 | 5127.24 | 5127.242553 | 5996.87108 |
| 40 | 8 | 5867.17738 | 6326.61 | 6326.605969 | 7388.706604 |
| 41 | 8.2 | 6623.49832 | 7804.35 | 7804.347938 | 9101.60063 |
| 42 | 8.4 | 8193.367993 | 9624.67 | 9624.66732 | 11209.13541 |
| 43 | 8.6 | 10108.146 | 11866.49 | 11866.4944 | 1381.7681 |
| 44 | 8.8 | 12491.6034 | 14626.85 | 14626.84802 | 16990.59666 |
| 45 | 9 | 15416.9694 | 18024.97 | 18024.97828 | 20912.05646 |
| 46 | 9.2 | 19041.96341 | 22207.38 | 22207.37865 | 25733.67724 |
| 47 | 9.4 | 23463.43914 | 27354.11 | 27354.11459 | 31661.14492 |
| 48 | 9.6 | 28934.2186 | 33866.18 | 33866.18408 | 38924.87078 |
| 49 | 9.8 | 35671.53058 | 41495.74 | 41495.73556 | 47901.07502 |
| 50 | 10 | 43966.67769 | 51055.95 | 51055.94967 | 58893.87151 |
| 51 | 10.2 | 54177.86762 | 62836.72 | 62836.72397 | 72422.19735 |
| 52 | 10.4 | 66745.2142 | 77212.11 | 77212.115494 | 89028.88707 |
| 53 | 10.6 | 82209.445 | 95126.94 | 95126.94085 | 109478.7888 |
| 54 | 10.8 | 101234.8333 | 117012.30 | 117012.2982 | 134478.1985 |
| 55 | 11 | 124637.9329 | 143907.93 | 143907.9321 | 165243.7954 |
| 56 | 11.2 | 153148.4793 | 176956.09 | 176956.0912 | 203821.1093 |
| 57 | 11.4 | 188810.0976 | 217558.51 | 217558.5131 | 249384.4055 |
| 58 | 11.6 | 232321.8002 | 267435.19 | 267435.1941 | 306306.2055 |

| Euler's Method with h=0.2 | | | | | | Euler's Method with h=0.4 | | | | | | |
|---------------------------|----------------|----------------|----------------|------------------------------------|------------------------------------|---------------------------|----------------|----------------|----------------|------------------------------------|------------------------------------|--------------|
| n | t _n | x _n | y _n | f(t _n ,x _n) | g(t _n ,x _n) | n | t _n | x _n | y _n | f(t _n ,x _n) | g(t _n ,x _n) | |
| 0 | 0 | 0 | 2 | 2 | 0.5555555556 | 0 | 0 | 0 | 2 | 2 | 0.5555555556 | |
| 1 | 0.2 | 0.4 | 1.80 | 1.8 | 0.224215078 | 0.3449277002 | 1 | 0.4 | 0.8 | 1.60 | 1.4 | 0.182469808 |
| 2 | 0.4 | 0.76 | 1.84 | 1.844802505 | 1.167544166 | 0.3449277002 | 2 | 0.8 | 1.44 | 2.20 | 2.196729879 | 0.908114298 |
| 3 | 0.6 | 1.12865161 | 2.08 | 2.07778981 | 2.0204164 | 0.200484112 | 3 | 1.2 | 2.318691952 | 3.36 | 3.360254299 | 4.597266527 |
| 4 | 0.8 | 1.80431361 | 2.48 | 2.48017198 | 3.80317193 | 0.221661777 | 4 | 1.6 | 3.662793671 | 5.20 | 5.19915291 | 7.07987187 |
| 5 | 1 | 2.4005338 | 3.05 | 3.05419147 | 5.72959308 | 0.03007461 | 5 | 2 | 5.74254805 | 8.03 | 8.030939652 | 10.3648877 |
| 6 | 1.2 | 2.649139918 | 3.8 | 3.79602335 | 8.22734233 | 0.437793116 | 6 | 2.4 | 8.954830096 | 12.37 | 12.3681501 | 16.56468767 |
| 7 | 1.4 | 3.14544555 | 4.76 | 4.111776602 | 11.11776018 | 0.910889102 | 7 | 2.8 | 13.90209074 | 18.99 | 18.9940271 | 24.1036877 |
| 8 | 1.6 | 4.36044189 | 5.96 | 5.60277643 | 14.77145559 | 0.91164016 | 8 | 3.2 | 21.4997008 | 29.10 | 29.0959464 | 38.41598541 |
| 9 | 1.8 | 5.56999477 | 7.52 | 7.52015555 | 18.64218418 | 1.29703836 | 9 | 3.6 | 31.1807936 | 44.47 | 44.47034056 | 58.405261 |
| 10 | 2 | 7.06120468 | 9.45 | 9.44953392 | 23.0623624 | 1.817591809 | 10 | 4 | 50.92621559 | 67.83 | 67.8319616 | 86.8186196 |
| 11 | 2.2 | 8.88707746 | 11.86 | 11.8607746 | 25.330337 | 2.51303578 | 11 | 4.4 | 76.05900233 | 103.28 | 103.2794094 | 134.2894597 |
| 12 | 2.4 | 11.2334977 | 14.87 | 14.8789005 | 18.7517787 | 3.44843488 | 12 | 4.8 | 119.370764 | 157.00 | 156.995193 | 203.256752 |
| 13 | 2.6 | 14.2984678 | 18.63 | 18.6304015 | 24.3669597 | 4.69428475 | 13 | 5.2 | 182.1688413 | 238.30 | 238.2578942 | 307.3120793 |
| 14 | 2.8 | 18.209991 | 23.19 | 23.1920991 | 32.6428692 | 6.4774979 | 14 | 5.6 | 277.4899 | 361.22 | 361.2277063 | 464.1796991 |
| 15 | 3 | 23.6891687 | 29.15 | 29.1562917 | 36.3093249 | 8.319685014 | 15 | 6 | 421.9770815 | 546.89 | 546.898586 | 700.4883706 |
| 16 | 3.2 | 28.5206071 | 36.42 | 36.4163907 | 41.5626854 | 11.0230088 | 16 | 6.4 | 640.7349159 | 827.09 | 827.0899342 | 1056.224936 |
| 17 | 3.4 | 35.8034572 | 45.45 | 45.4476188 | 46.12314217 | 14.29106717 | 17 | 6.8 | 971.570896 | 1249.58 | 1249.579908 | 1591.409162 |
| 18 | 3.6 | 44.8975458 | 56.01 | 56.006916 | 51.4464243 | 19.02606296 | 18 | 7.2 | 1471.402853 | 1886.14 | 1886.143573 | 2396.052897 |
| 19 | 3.8 | 56.227304 | 70.61 | 70.6164874 | 86.5412774 | 24.5293667 | 19 | 7.6 | 2225.860292 | 2844.58 | 2844.580732 | 3505.37578 |
| 20 | 4 | 70.35025473 | 89.92 | 89.92286443 | 117.3757951 | 32.44601388 | 20 | 8 | 3363.602575 | 4286.72 | 4286.715033 | 5421.628114 |
| 21 | 4.2 | 87.8482761 | 109.40 | 109.402761 | 133.5785828 | 43.0317238 | 21 | 8.4 | 5078.738585 | 6455.37 | 6455.366269 | 8148.457648 |
| 22 | 4.4 | 109.814433 | 137.93 | 137.9329616 | 165.660173 | 54.4931913 | 22 | 8.8 | 7665.525092 | 9744.75 | 9744.749328 | 12240.54486 |
| 23 | 4.6 | 137.023555 | 169.04 | 169.039635 | 204.485372 | 70.3460584 | 23 | 9.2 | 11546.42482 | 14610.97 | 14610.96772 | 18379.01143 |
| 24 | 4.8 | 170.828234 | 209.94 | 209.967109 | 251.203674 | 90.628089 | 24 | 9.6 | 17390.81173 | 21962.57 | 21962.57185 | 27583.83138 |
| 25 | 5 | 215.816268 | 260.58 | 260.287704 | 315.4616423 | 115.4444945 | 25 | 10 | 26175.84047 | 32996.11 | 32996.10512 | 41382.04162 |
| 26 | 5.2 | 264.0121808 | 323.28 | 323.2750988 | 387.361502 | 149.3651468 | 26 | 10.4 | 39174.28252 | 49548.92 | 49548.92177 | 62059.26895 |
| 27 | 5.4 | 329.5872006 | 400.85 | 400.847998 | 479.734377 | 191.2499899 | 27 | 10.8 | 57373.14117 | 71912.49 | 71912.48851 | 90305.87424 |
| 28 | 5.6 | 409.566026 | 499.9 | 499.940833 | 584.744778 | 247.7777778 | 28 | 11.2 | 88842.90296 | 111586.98 | 111586.92 | 139429.2687 |
| 29 | 5.8 | 509.1554972 | 615.42 | 615.423204 | 733.703734 | 312.0330217 | 29 | 11.6 | 133577.6946 | 167358.69 | 167358.6865 | 208894.5019 |
| 30 | 6 | 632.2001413 | 762.04 | 762.0448872 | 905.784889 | 397.620611 | 30 | 12 | 200521.1692 | 250916.49 | 250916.4425 | 319994.4082 |
| 31 | 6.2 | 788.0978977 | 943.20 | 943.205613 | 1135.765634 | 506.159017 | 31 | 12.4 | 300887.7641 | 376068.74 | 376068.7443 | 468508.4014 |
| 32 | 6.4 | 973.039917 | 1166.95 | 1166.95138 | 1433.49349 | 643.49009 | 32 | 12.8 | 451315.2618 | 563472.10 | 563472.1049 | 701375.8684 |
| 33 | 6.6 | 1206.60433 | 1443.23 | 1443.232518 | 1705.14332 | 817.073965 | 33 | 13.2 | 676704.1038 | 840022.45 | 840022.4522 | 1049750.693 |
| 34 | 6.8 | 1495.268834 | 1784.26 | 1784.261184 | 2104.59775 | 1036.34051 | 34 | 13.6 | 1008240.15975 | 1198234.05 | 1198234.051 | 1526392.719 |
| 35 | 7 | 1852.1907 | 2205.09 | 2205.091319 | 2595.81819 | 1318.0758 | 35 | 14 | 1519882.176 | 1892256.01 | 1892256.009 | 2350211.628 |
| 36 | 7.2 | 2276.19608 | 2821.26 | 2821.26079 | 3246.19608 | 1662.10909 | 36 | 14.4 | 2276784.58 | 2832301.06 | 2832301.06 | 3515342.872 |
| 37 | 7.4 | 2818.00952 | 3364.55 | 3364.554469 | 4047.44886 | 2101.95082 | 37 | 14.8 | 3409705.004 | 4238438.209 | 4238438.209 | 5271648.58 |
| 38 | 7.6 | 3510919982 | 4514.04 | 4514.04226 | 4865.991933 | 2655.87192 | 38 | 15.2 | 5105088.28 | 6314404.95 | 6314404.951 | 781542.46 |
| 39 | 7.8 | 4415728817 | 5712.47 | 5712.47081 | 5996.78819 | 3352.91136 | 39 | 15.6 | 840022.45 | 1198234.05 | 1198234.051 | 1526392.719 |
| 40 | 8 | 5367.177338 | 6326.61 | 6326.605699 | 7888.70664 | 4299.56604 | 40 | 16 | 1148050.14 | 14197542.18 | 14197542.18 | 1757906.72 |
| 41 | 8.2 | 6632.498532 | 7804.35 | 7804.34708 | 1011.60003 | 5331.389145 | 41 | 16.4 | 1711067.91 | 2211850.31 | 2211850.31 | 2860284.62 |
| 42 | 8.4 | 8093.36793 | 9624.67 | 9624.67012 | 12108.1354 | 6372.78888 | 42 | 16.8 | 2599792.05 | 3120948.20 | 3120948.20 | 395238.57 |
| 43 | 8.6 | 9818.30146 | 11866.49 | 11866.4918 | 14866.49481 | 8450.38839 | 43 | 17.2 | 3848771.33 | 4742104.62 | 4742104.62 | 598316.57 |
| 44 | 8.8 | 12491.6034 | 14626.85 | 14626.84802 | 19090.5666 | 10632.76866 | 44 | 17.6 | 575448.18 | 7082431.61 | 7082431.61 | 8793159.47 |
| 45 | 9 | 15416.9694 | 18024.97 | 18024.96736 | 2501.05546 | 13366.4566 | 45 | 18 | 85607154.23 | 10598076.60 | 10598076.60 | 13093620.1 |
| 46 | 9.2 | 19243.9634 | 22603.81 | 22603.81074 | 3276.10724 | 16792.7024 | 46 | 18.4 | 129808761.5 | 16792702.4 | 16792702.4 | 2096316.51 |
| 47 | 9.4 | 23607.3144 | 27354.11 | 27354.14098 | 4166.14492 | 21085.10072 | 47 | 18.8 | 19130470.7 | 23655407.54 | 23655407.54 | 29218905.5 |
| 48 | 9.6 | 28934.2616 | 33866.34 | 33866.34038 | 5894.9624 | 26459.8073 | 48 | 19.2 | 28592909.72 | 35340303.13 | 35340303.13 | 43647025.5 |
| 49 | 9.8 | 35871.53058 | 41754.73 | 41754.7356 | 7970.07652 | 3386.70949 | 49 | 19.6 | 47704242.27 | 5280140.16 | 5280140.16 | 65381.761 |
| 50 | 10 | 44055.67709 | 50555.95 | 50555.97709 | 10695.4102 | 41962.80187 | 50 | 20 | 78879180.49 | 78879180.49 | 78879180.49 | 97484724.9 |
| 51 | 10.2 | 54177.86762 | 62836.72 | 62836.72397 | 14272.19735 | 52125.92475 | 51 | 20.4 | 95399160.1 | 117805404.26 | 117805404.26 | 14536328.38 |
| 52 | 10.4 | 67225.1642 | 77321.16 | 77321.1634 | 80028.8078 | 62080.2792 | 52 | 20.8 | 145234963 | 17956999.66 | 179569880 | 21705655.25 |
| 53 | 10.6 | 83216.94451 | 94055.95 | 94055.9519 | 107135.6466 | 78163.6466 | 53 | 21.2 | 229620638.6 | 26459999.66 | 26459999.66 | 324140999.1 |
| 54 | 10.8 | 101234.833 | 117012.30 | 117012.2982 | 144784.1695 | 102545.0338 | 54 | 21.6 | 381995422 | 392471486.01 | 392471486 | 48391570.8 |
| 55 | 11 | 124637.239 | 143907.93 | 143907.9321 | 165240.7954 | 127875.6485 | 55 | 22 | 474904217 | 585934967.10 | 585934967 | 724878613 |
| 56 | 11.2 | 153418.879 | 176956.09 | 176956.0912 | 20321.1093 | 159864.4007 | 56 | 22.4 | 709387820 | 874984949.12 | 874984949 | 1078996848 |
| 57 | 11.4 | 175851.9917 | 217585.13 | 217585.1305 | 24905.9975 | 19975.7581 | 57 | 22.8 | 109181881.88 | 13064879.18 | 13064879.18 | 162491881.88 |
| 58 | 11.6 | 210632.2032 | 267435.19 | 267435.1941 | 306306.2055 | 24952.1222 | 58 | 23.2 | 158195172.7 | 1950494626.32 | 1950494626 | 240361603.9 |

| | | | | | | | | | | | | | | |
|---------------------------------------|----------------|--------------|-----------|-------------|--------------|--------------|---------------------|------|----------------|----------------|-------------|-------------|-------------|-------------|
| 59 | 11.8 | 28508.839 | 328096.44 | 328096.4352 | 376173.5957 | 311613.9003 | 59 | 23.6 | 23621490598 | 29119508896.43 | 29119508896 | 35879661865 | 1.2556+11 | |
| 60 | 12 | 351548.1261 | 403931.15 | 403931.1544 | 461919.8892 | 388967.5333 | 60 | 24 | 35269294156 | 43471373642.33 | 43471373642 | 53556336800 | 1.90797E+11 | |
| Predictor Corrector Method with h=0.1 | | | | | | | | | | | | | | |
| n | t _n | x | y | f(t,x,y) | g(t,x,y) | Error for PC | PC for x | n | t _n | x | y | f(t,x,y) | g(t,x,y) | |
| 0 | 0 | 0 | 2 | 2 | -1 | 0.360555556 | 0.195 | 0 | 0 | 0 | 2 | 2 | -1 | |
| 1 | 0.1 | 0.2 | 1.90 | 1.9 | -0.394629082 | 0.255720085 | 0.388025851 | 1 | 0.2 | 0.4 | 1.80 | 1.8 | 0.2 | |
| 2 | 0.2 | 0.39 | 1.86 | 1.860517092 | 0.14086666 | 0.168171669 | 0.576763186 | 2 | 0.4 | 0.76 | 1.84 | 1.844280552 | 0.056103947 | |
| 3 | 0.3 | 0.5705051709 | 1.87 | 1.874605658 | 0.027356687 | 0.095670209 | 0.766649058 | 3 | 0.6 | 1.285611 | 2.006510242 | 1.356555465 | 3.12 | 2.318691952 |
| 4 | 0.4 | 0.763512275 | 1.94 | 1.937341315 | 1.081507932 | 0.034942164 | 0.962653946 | 4 | 0.8 | 2.48 | 2.478197709 | 1.820594959 | 4.16 | 3.662793671 |
| 5 | 0.5 | 0.957246407 | 2.05 | 2.065402108 | 1.537216295 | 0.016030737 | 1.018934227 | 5 | 1 | 3.05 | 3.040431947 | 2.041320154 | 5.2 | 4.26244835 |
| 6 | 0.6 | 1.161795617 | 2.20 | 2.197264306 | 2.187564306 | 0.059795654 | 1.391264277 | 6 | 1.2 | 3.6 | 3.79602335 | 4.822373423 | 6.24 | 8.854836966 |
| 7 | 0.7 | 1.381522048 | 2.39 | 2.392108879 | 2.384687925 | 0.096785839 | 1.632656375 | 7 | 1.4 | 4.76 | 4.76048802 | 6.113119712 | 7.28 | 13.0020074 |
| 8 | 0.8 | 1.620732936 | 2.63 | 2.630577071 | 2.83642919 | 0.128396908 | 1.897972849 | 8 | 1.6 | 5.98 | 5.986277623 | 7.691144559 | 8.32 | 21.4997708 |
| 9 | 0.9 | 1.881976703 | 2.91 | 2.914225684 | 3.31296393 | 0.155238268 | 2.191777581 | 9 | 1.8 | 7.52 | 7.521005155 | 9.640411384 | 9.64 | 33.18079398 |
| 10 | 1 | 2.17521761 | 3.25 | 3.245516978 | 3.823190374 | 0.176808272 | 2.518880411 | 10 | 2 | 9.45 | 9.448533392 | 12.06192364 | 10.4 | 50.5621559 |
| 11 | 1.1 | 2.49764459 | 3.63 | 3.637830515 | 4.575918572 | 0.19695672 | 2.884473551 | 11 | 2.2 | 8.11591812 | 10.7853067 | 10.28795206 | 11.44 | 78.2794097 |
| 12 | 1.2 | 2.86548061 | 4.07 | 4.065421908 | 4.979791136 | 0.21200979 | 3.293898207 | 12 | 2.4 | 14.87 | 14.87488005 | 18.79517787 | 12.48 | 119.370764 |
| 13 | 1.3 | 3.29090251 | 4.56 | 4.560480251 | 5.644076149 | 0.231375504 | 3.733630734 | 13 | 2.6 | 18.63 | 18.29048678 | 23.42669697 | 13.56 | 186.396153 |
| 14 | 1.4 | 3.72543054 | 5.13 | 5.127808636 | 6.378253084 | 0.230671234 | 4.270102477 | 14 | 2.8 | 23.32 | 23.19352482 | 36.17595403 | 14.56 | 277.487999 |
| 15 | 1.5 | 4.238211217 | 5.77 | 5.76653184 | 7.192477665 | 0.233603672 | 4.860736991 | 15 | 3 | 29.15 | 29.15452917 | 36.30932948 | 15.6 | 421.977015 |
| 16 | 1.6 | 4.81477601 | 6.48 | 6.484881605 | 8.09770202 | 0.231660114 | 5.50751282 | 16 | 3.2 | 36.42 | 36.15262654 | 43.63009938 | 16.64 | 640.734019 |
| 17 | 1.7 | 5.46262762 | 7.29 | 7.294651609 | 9.128737674 | 0.224197474 | 6.238257029 | 17 | 3.4 | 45.45 | 45.44674878 | 52.1324271 | 17.68 | 971.570896 |
| 18 | 1.8 | 6.192727923 | 8.21 | 8.205233789 | 10.22896957 | 0.210364623 | 7.064400644 | 18 | 3.6 | 56.67 | 56.67272732 | 69.71720808 | 18.72 | 1470.42853 |
| 19 | 1.9 | 7.012512529 | 9.23 | 9.228220696 | 11.48417634 | 0.189157527 | 7.991494248 | 19 | 3.8 | 70.61 | 70.61461894 | 84.54127744 | 19.76 | 2225.860282 |
| 20 | 2 | 7.93073366 | 10.38 | 10.37663933 | 12.8845645 | 0.159367744 | 9.088100221 | 20 | 4 | 87.92 | 87.9278643 | 107.375951 | 20.8 | 3363.692575 |
| 21 | 2.1 | 8.97373719 | 11.67 | 11.66509478 | 14.4845593 | 0.12842234 | 10.21488421 | 21 | 4.2 | 87.93 | 87.9379628 | 133.1579628 | 21.84 | 5078.37585 |
| 22 | 2.2 | 10.14024668 | 13.11 | 13.10994973 | 16.19555712 | 0.08807684 | 11.5322194 | 22 | 4.4 | 109.83 | 109.834423 | 165.0051732 | 22.88 | 7662.55092 |
| 23 | 2.3 | 11.45121465 | 14.73 | 14.72950545 | 18.14716031 | 0.020251236 | 13.1014928 | 23 | 4.6 | 169.04 | 169.039635 | 204.4853872 | 23.92 | 11546.24082 |
| 24 | 2.4 | 12.9421982 | 16.54 | 16.54422148 | 20.32733939 | 0.078074606 | 14.68025124 | 24 | 4.8 | 209.94 | 209.9367169 | 253.2302674 | 24.96 | 17390.8173 |
| 25 | 2.5 | 14.78595434 | 18.58 | 18.57695541 | 22.76276724 | 0.177616818 | 16.55012372 | 25 | 5 | 260.58 | 260.5827704 | 313.4616243 | 25.92 | 26175.84047 |
| 26 | 2.6 | 16.4363988 | 20.85 | 20.85132313 | 25.48312567 | 0.29869254 | 18.64904872 | 26 | 5.2 | 323.28 | 323.2750988 | 387.8615547 | 26.104 | 39374.28522 |
| 27 | 2.7 | 18.5216331 | 23.40 | 23.4015447 | 28.52145322 | 0.444773887 | 21.00439813 | 27 | 5.4 | 400.85 | 400.8473998 | 479.7314117 | 27.108 | 59135.1123 |
| 28 | 2.8 | 20.8617857 | 26.25 | 26.25369002 | 31.91453183 | 0.61950283 | 23.44672923 | 28 | 5.6 | 496.79 | 496.7940833 | 585.3675458 | 28.112 | 88619.5988 |
| 29 | 2.9 | 23.4715657 | 29.45 | 29.45431231 | 35.703153 | 0.82849789 | 26.61018747 | 29 | 5.8 | 509.15 | 509.154972 | 615.422 | 29.116 | 133777.6946 |
| 30 | 3 | 26.4130789 | 33.02 | 33.01547474 | 39.93340369 | 1.075906206 | 29.93838306 | 30 | 6 | 762.04 | 762.044672 | 905.7043889 | 30.12 | 200521.1692 |
| 31 | 3.1 | 29.37123836 | 37.01 | 37.00881513 | 44.7653287 | 1.368239906 | 33.65737774 | 31 | 6.2 | 794.60 | 794.607787 | 941.201565 | 31.124 | 376068.7461 |
| 32 | 3.2 | 33.0439988 | 41.47 | 41.47437242 | 49.9263573 | 1.712198676 | 37.83116891 | 32 | 6.4 | 973.24 | 973.243917 | 1166.95 | 32.128 | 54315.2618 |
| 33 | 3.3 | 37.58153712 | 46.47 | 46.46700817 | 55.8087048 | 2.115676743 | 42.50718164 | 33 | 6.6 | 1206.64 | 1206.64033 | 1441.23 | 33.132 | 676704.1038 |
| 34 | 3.4 | 42.2823794 | 52.05 | 52.04787867 | 62.3726975 | 2.587323193 | 47.74488929 | 34 | 6.8 | 1495.26 | 1495.26834 | 1784.26 | 34.136 | 1041313.085 |
| 35 | 3.5 | 47.4300258 | 58.29 | 58.2551484 | 69.6963518 | 3.138234593 | 53.61002242 | 35 | 7 | 1852.13 | 1852.13907 | 2205.09 | 35.124 | 1519882.176 |
| 36 | 3.6 | 53.26154064 | 65.25 | 65.25473981 | 77.86653181 | 3.79717624 | 60.1763569 | 36 | 7.2 | 2274.26 | 2274.256771 | 2951.81816 | 36.144 | 2272784.58 |
| 37 | 3.7 | 59.76701903 | 73.04 | 73.04143709 | 86.97990533 | 4.52387065 | 67.5206227 | 37 | 7.4 | 2838.05 | 2838.05469 | 3746.028877 | 37.148 | 34097.0508 |
| 38 | 3.8 | 67.09116274 | 81.74 | 81.73943763 | 97.1440825 | 5.38611592 | 75.70802501 | 38 | 7.6 | 3510.91 | 3510.91882 | 4154.04 | 38.152 | 5105086.288 |
| 39 | 3.9 | 75.26510583 | 91.45 | 91.45385886 | 108.4782543 | 6.38575851 | 84.95288321 | 39 | 7.8 | 4341.78 | 4341.78827 | 5127.24 | 39.156 | 6474.262 |
| 40 | 4 | 84.4048089 | 102.30 | 102.3017183 | 121.1174059 | 7.54020635 | 95.24624797 | 40 | 8 | 5367.17 | 5367.17338 | 6326.61 | 40.16 | 1416051.04 |
| 41 | 4.1 | 94.6406092 | 114.41 | 114.414593 | 135.2001502 | 8.871770061 | 106.7580476 | 41 | 8.2 | 6632.49 | 6632.49832 | 7804.35 | 41.164 | 17501307.91 |
| 42 | 4.2 | 106.0820068 | 127.93 | 127.9342743 | 150.916704 | 10.40618542 | 119.6300146 | 42 | 8.4 | 8193.36 | 8193.36793 | 9624.67 | 42.168 | 2557392.05 |
| 43 | 4.3 | 118.8754343 | 143.03 | 143.0258813 | 168.4247809 | 12.17184916 | 134.0201463 | 43 | 8.6 | 10181.49 | 11866.49 | 11866.494 | 43.176 | 3825771.33 |
| 44 | 4.4 | 133.1780224 | 159.87 | 159.8683594 | 187.9385451 | 14.20119117 | 150.1045511 | 44 | 8.8 | 12491.60 | 1426.85 | 1426.8502 | 44.176 | 5725418.78 |
| 45 | 4.5 | 149.1446584 | 178.66 | 178.6621248 | 209.6460332 | 16.53089951 | 168.079501 | 45 | 9 | 15146.96 | 18024.9736 | 18024.9736 | 45.18 | 8560175.23 |
| 46 | 4.6 | 167.0105798 | 199.63 | 199.6306282 | 233.9157972 | 19.2029347 | 188.1637266 | 46 | 9.2 | 18021.39 | 22702.38 | 22702.38 | 46.184 | 12798324.95 |
| 47 | 4.7 | 186.9941477 | 223.02 | 232.022579 | 260.9013209 | 22.26426551 | 210.6009395 | 47 | 9.4 | 21964.43 | 24413.1409 | 24413.1409 | 47.188 | 19137407.7 |
| 48 | 4.8 | 209.2907374 | 249.11 | 249.1137589 | 290.9895855 | 25.76448503 | 235.6623793 | 48 | 9.6 | 23066.34 | 38946.96241 | 38946.96241 | 48.192 | 28529290.7 |
| 49 | 4.9 | 234.2077313 | 278.21 | 278.2125374 | 324.4272049 | 29.77616703 | 263.6514486 | 49 | 9.8 | 24575.35 | 41071.0752 | 41071.0752 | 49.2 | 427301422.7 |
| 50 | 5 | 262.0288851 | 310.66 | 310.6618079 | 361.8093213 | 34.35586176 | 304.9042125 | 50 | 10 | 3966.77 | 51055.95 | 51055.95 | 50.2 | 63850178.9 |
| 51 | 5.1 | 293.0951639 | 346.84 | 346.84274 | 403.364949 | 39.5851276 | 329.7962754 | 51 | 10.2 | 54177.86 | 62836.72 | 62836.72 | 51.204 | 95393136 |
| 52 | 5.2 | 327.7794399 | 387.18 | 387.1796899 | 449.6514317 | 45.55166167 | 368.745666 | 52 | 10.4 | 66745.21 | 77321.16 | 77321.16 | 52.208 | 1425249693 |
| 53 | 5.3 | 366.4974089 | 432.14 | 432.1448331 | 501.1867946 | 52.35416798 | 412.2178261 | 53 | 10.6 | 82029.4451 | 95126.94 | 95126.94 | 53.212 | 2129602882 |
| 54 | 5.4 | 409.718922 | 482.26 | 482.2635126 | 558.566688 | 60.1060236 | 460.7310769 | 54 | 10.8 | 100124.8333 | 117012.30 | 117012.30 | 54.216 | 3180195627 |
| 55 | 5.5 | 457.9393434 | 538.12 | 538.1201814 | 622.4462378 | 68.93247739 | 514.8625028 | 55 | 11 | 124907.2929 | 143907.3321 | 143907.3321 | 55.217 | 4749804217 |
| 56 | 5.6 | 511.7502616 | 600.37 | 600.3600551 | 693.5619254 | 78.97692885 | 575.9525717 | 56 | 11.2 | 176956.09 | 203472.8793 | 203472.8793 | 56.224 | 7038787024 |
| 57 | 5.7 | 571.7867621 | 669.72 | 669.721977 | 772.7197274 | 90.40077728 | 642.6248057 | 57 | 11.4 | 188801.0976 | 217558.51 | 217558.51 | 57.228 | 10598388010 |
| 58 | 5.8 | 638.7588818 | 746.99 | 746.9931704 | 860.8241532 | 103.8619032 | 717.7623197 | 58 | 11.6 | 223231.8002 | 267495.194 | 267495.194 | 58.232 | 15819512747 |
| 59 | 5.9 | 713.4531899 | 831.08 | 831.0753857 | 958.8762799 | 118.1387159 | 801.5601489 | 59 | 11.8 | 238068.4352 | 274082.1208 | 274082.1208 | 59.236 | 23621490598 |
| 60 | 6 | 796.7657575 | 928.96 | 928.9634137 | 1067.968695 | 146.7387372 | 843.2139282 | 60 | 12 | 315148.1261 | 403931.1544 | 403931.1544 | 60.24 | 35269294156 |
| Rule's Method when h=0.2 | | | | | | | | | | | | | | |
| n | t _n | x | y | f(t,x,y) | g(t,x,y) | Error | Predictor-Corrector | n | t _n | x | y | f(t,x,y) | g(t,x,y) | |
| 0 | 0 | 0 | 2 | 2 | -1 | 0.360555556 | 0.19 | 0 | 0 | 0 | 2 | 2 | -1 | |

